Tuesday, February 01, 2011 7:18:16 AM

Item ID:

D3391-023

Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

2/1/2011

Start Qty: 1.00

Required Date: 2/11/2011

Req'd Qty: 1.00



Accept



Setup Start



Stop



Cust Item ID: Customer:

Reference:

Approvals:

Date: SPC (Y/N):

Tooling:

Date: Date: Run

Start Stop



Sequence ID/ Work Center ID Operation Description Set Up/ **Run Hours** **Tool ID**

Tool # Plan Code

Accept Qty

Reject **Qty**

Reject Number

Insp. Stamp

Draw Nbr -

Revision Nbr

D3391 Rev H

Skidtubes

Skidtubes

Skidtubes

Memo

0.00

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391

W/O:			WO	RK ORDER CHANG	ES		-		-
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Tuesday, February 01, 2011 7:18:16 AM

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D3391-023

Accept



Date:

Date:

Setup Start



Revision ID:

Item ID:

Item Name:

Required Date: 2/11/2011

Mid Tube Assembly

Start Date:

2/1/2011

Start Qty: 1.00

Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC:

Req'd Qty: 1.00

Date:

Tooling:

Run

Start

Stop

Stop



Sequence ID/

Operation

Set Up/

SPC (Y/N):

Tool ID

Tool # Plan Code Accept Reject **Qty** Qty

Reject Number

Insp. Stamp

Work Center ID

Description

Run Hours

11-Open .375" holes to .438" ***do not open fwd saddle holes*** 12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188' dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube



11-2-7

W/O:				WORK ORDER CHANGES							
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Tuesday, February 01, 2011 7:18:16 AM

Item ID:

D3391-023

Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

2/1/2011

Start Oty: 1.00

Required Date: 2/11/2011

Req'd Qty: 1.00



Accept



Setup Start



Stop

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

QC: ____ Date: ____

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Tooling: SPC (Y/N): Date:

Date:

Run Start

Stop



Sequence ID/ **Work Center ID**

110

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Run Hours

Set Up/

Tool # Plan

Accept **Qty**

Code

Reject Qty

Reject Number Stamp

HandFinish

Hand Finishing

Memo

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

130

QC

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

B12 11/02/08

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Tuesday, February 01, 2011 7:18:16 AM

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D3391-023 Accept Item ID: Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly 2/1/2011 Start Qty: 1.00 **Start Date: Cust Item ID: Req'd Qty:** 1.00 **Required Date: 2/11/2011 Customer:** Reference: Start Run Process Plan: Date: ____ **Tooling:** Approvals: Date: Stop QC: Date: _____ SPC (Y/N): Date: Sequence ID/ **Tool ID Operation** Tool # Plan Accept Reject Reject Set Up/ Work Center ID **Description** Code Qty Qty Number Stamp **Run Hours** 140 0.00 Skidtubes Skidtubes Memo Skidtubes 1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg 3- Prepare tube for welding 4-Bond web in place as per Dwg D3391 & QSI 015. Adhere for 12 hours) A/R Sikaflex exp: 11-9-30 batch#: M11604/0 BE 11/02/09 150 QC5- Inspect part completeness to step on W/O 0.000.00 Memo Quality Control

0.00

0.00

160

Skidtubes

Skidtubes

Skidtubes

Memo 1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

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Tuesday, February 01, 2011. 7:18:16 AM

Item ID:

D3391-023

Revision ID:

Item Name:

Mid Tube Assembly

2/1/2011 **Start Date:** Required Date: 2/11/2011

Start Qty: 1.00 Req'd Qty: 1.00



Accept



Setup Start



Stop

Cust Item ID: Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start



Date:

SPC (Y/N):

Date:

Code

Stop

Sequence ID/ Work Center ID

170

QC

Quality Control

Operation Description

OC10-Inspect visual per OSI004- ground welds

Set Up/ **Run Hours**

0.00

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Tool # Plan Accept Qty

Reject Qty

Run

Reject Number

Insp. Stamp

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Pressure Wash per QS1005 4.3

Memo

Memo

0.00

0.00

←AND REALODINE AS PER PAR09-043

A 1 11/02/10

185

HandFinish Hand Finishing

Memo

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Item ID:

D3391-023

Revision ID: Item Name:

Mid Tube Assembly

Start Date:

2/1/2011

Start Qty: 1.00

Required Date: 2/11/2011

Req'd Qty: 1.00



Accept



Setup Start

Stop



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals: QC:

Process Plan:

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Tooling: SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Run

Reject

Qty

Accept

Qty

Start Stop

Reject

Number



Insp.

Stamp

Sequence ID/ **Work Center ID**

190

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

m11595L

Set Up/ **Run Hours**

0.00

0.00

200

Quality Control

QC3- Inspect Part Finish

0.00

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Memo

0.00

W/O:	•	WORK ORDER CHANGES											
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Page 7



Item ID:

D3391-023

Tuesday, February 01, 2011 7:18:16 AM

Accept

Setup Start



Revision ID:

Item Name:

Required Date: 2/11/2011

Mid Tube Assembly

Start Date:

2/1/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

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Date: _____

Date:

Tooling:

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0.00

SPC (Y/N):

Date:

Tool ID

Run

Start

Qty

Stop



Sequence ID/ **Work Center ID**

210

Skidtubes Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours**

Tool # Plan

Date:

Code

Accept Qty

Reject Reject

Insp. Number Stamp

Memo

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

220

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Quality Control

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W/O:			WO	RK ORDER CHANG	ES				•
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Ite	m	ID:

D3391-023

Accept



Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 2/11/2011

2/1/2011

Start Qty: 1.00

Reg'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling: SPC (Y/N): Date:

Date:

Start Run



QC:

Sequence ID/ **Work Center ID**

230

HandFinish

Hand Finishing

Operation Description

HandFinishing

Memo

Install Inserts as per Dwg

Set Up/

Run Hours 0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Stop

Reject Insp. Stamp Number

240

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

250

Packaging

Packaging

Identify as per dwg & Stock Location:

Memo

Memo

0.00

0.00

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Item ID:

D3391-023

Tuesday, February 01, 2011 7:18:16 AM

Accept

Setup Start

Stop



Revision ID:

Item Name: Mid Tube Assembly

Required Date: 2/11/2011

Start Date:

2/1/2011

Start Qty: 1.00 Req'd Qty: 1.00

Date: _____

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: QC:

Date:

Tooling:

Date:

Run Start

Stop

Qty

Sequence ID/

Work Center ID

Operation Description

Set Up/ **Run Hours**

SPC (Y/N):

260

QC21- Final Inspection - Work Order Release

0.00

Memo

Quality Control

Tool ID

Date:

Tool # Plan Code

Accept Qty

Reject Reject Number

Insp. Stamp

0.00

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Tuesday; February 01, 2011 7:18:12 AM

Work Order ID: 65991

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 2/1/2011 Start Qty: 1.00

Required Date: 2/11/2011

Page 1

Required Qty: 1.00

Comments:

IPP A. 105.10.20 | New Issue | |

IPP BI 106.02.101 IECN773 dwg rev.D

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07.03.20

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KJ/ECi i

IPP D 07.03.28

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IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

rev F dwg

re-format

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec

Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location ·	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
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Tuesday, Februa	ry l
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65991

Parent Item:

D3681-1

D3391-023

Manufactured

Manufactured

Parent Item Name: Mid Tube Assembly



Start Date: 2/1/2011

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Required Date: 2/11/2011

Start Qty: 1.00

Required Qty: 1.00

Spacer

160

Each

31.0000

Bushing

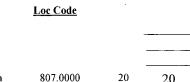
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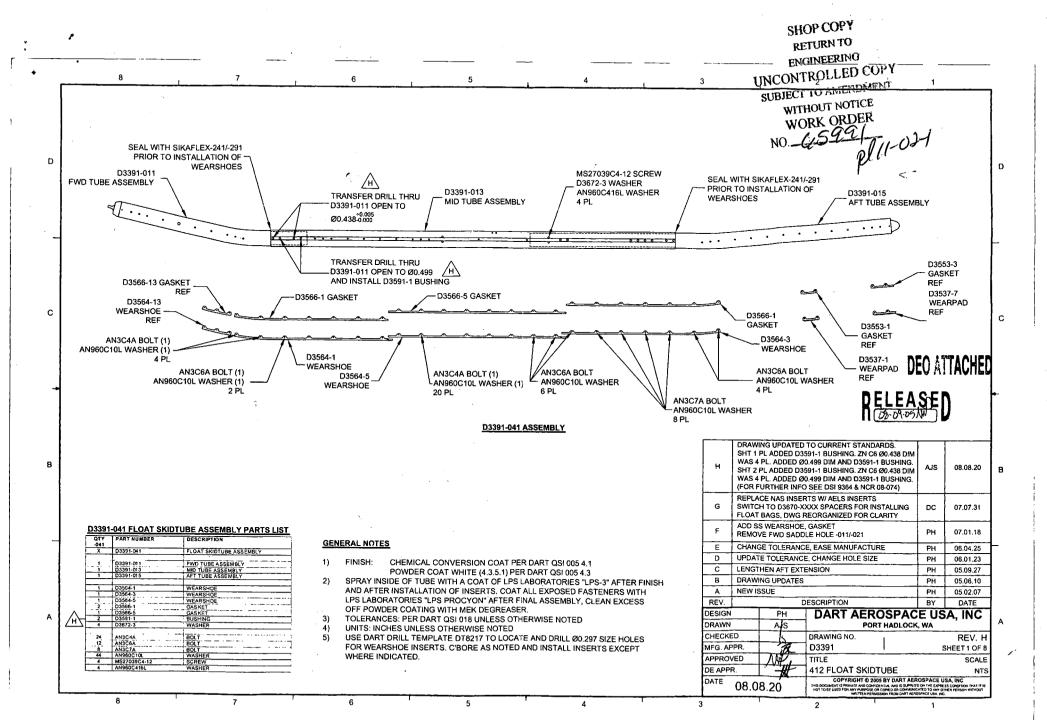
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DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
11/02/11	236	Assemble with: D3566-5/B66146 (x1) GASKET D3564-5/B65058 (x)) WEARSHOC	yl	ulosl.,) x \			
11/02/11	230	Assemblewith: AN3C-4A/M116075 (XIZ) bolts NASI 149(033217/M116075(XIZ) WAShers	94	11/02/11	X12			

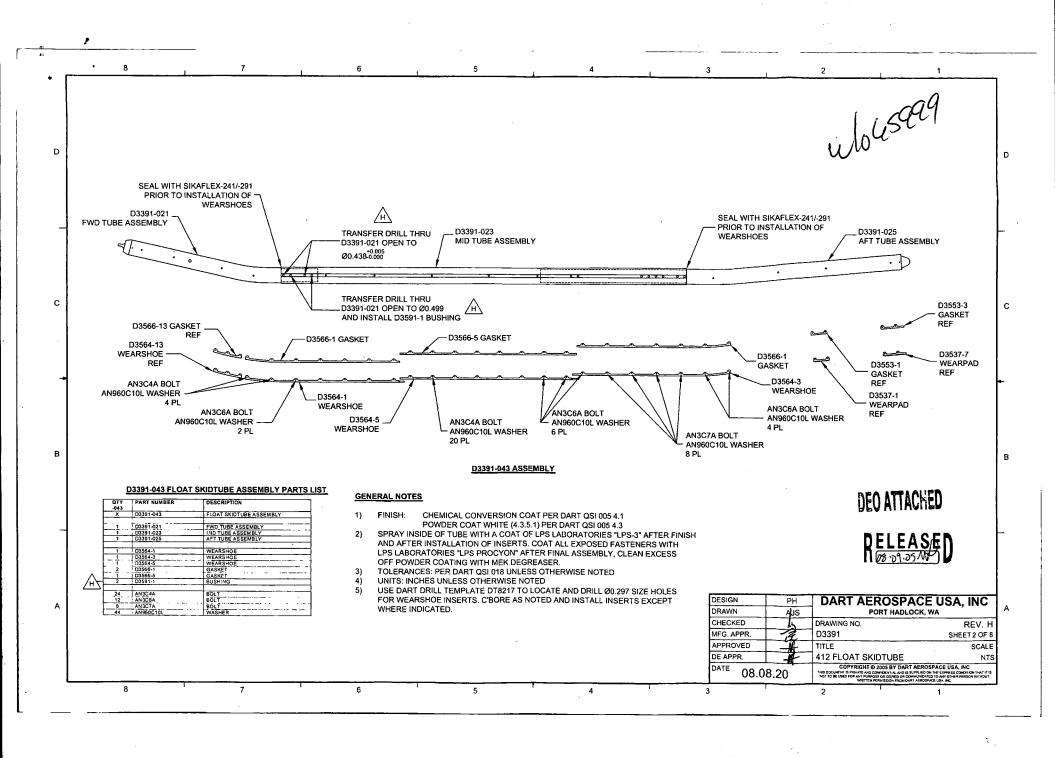
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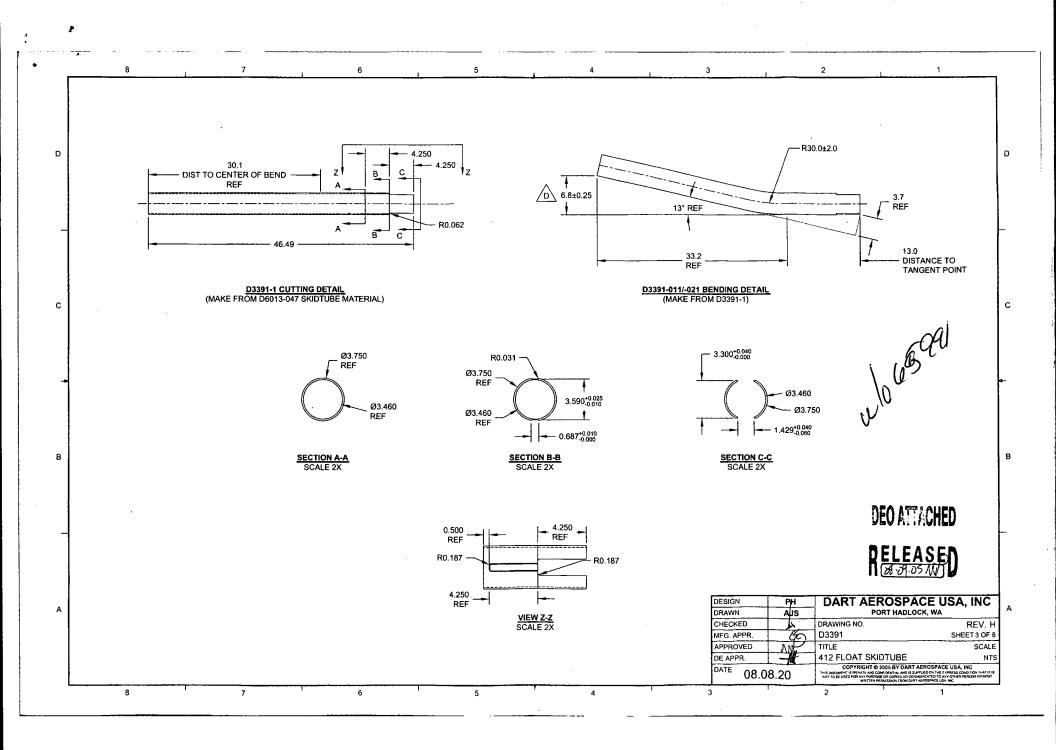
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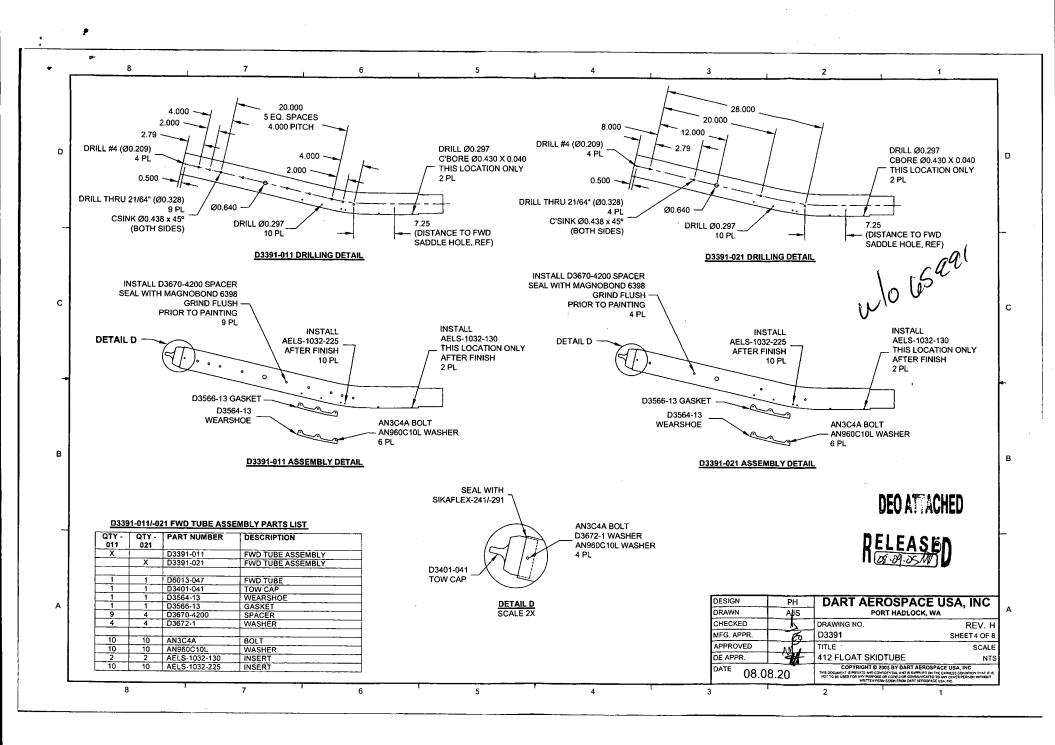


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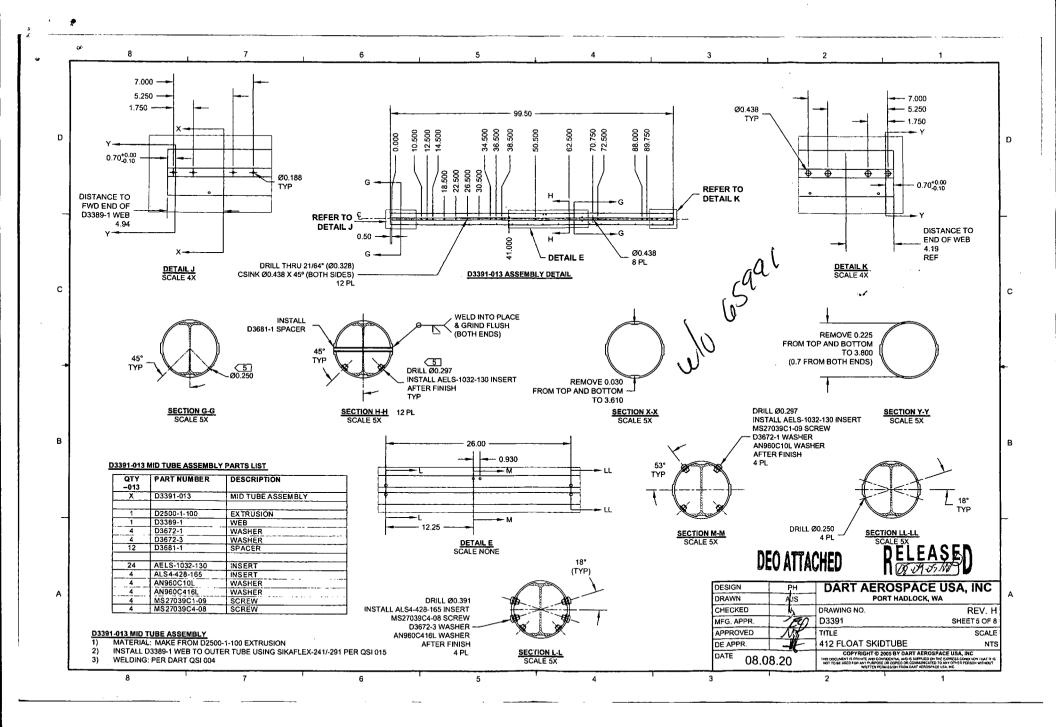
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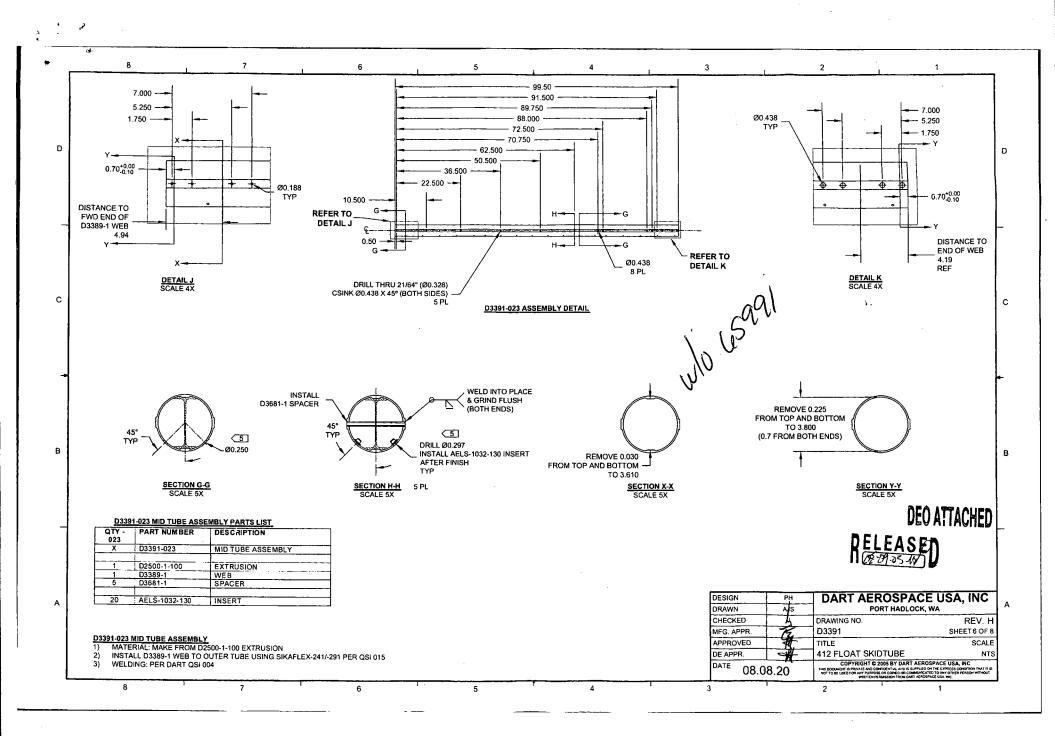


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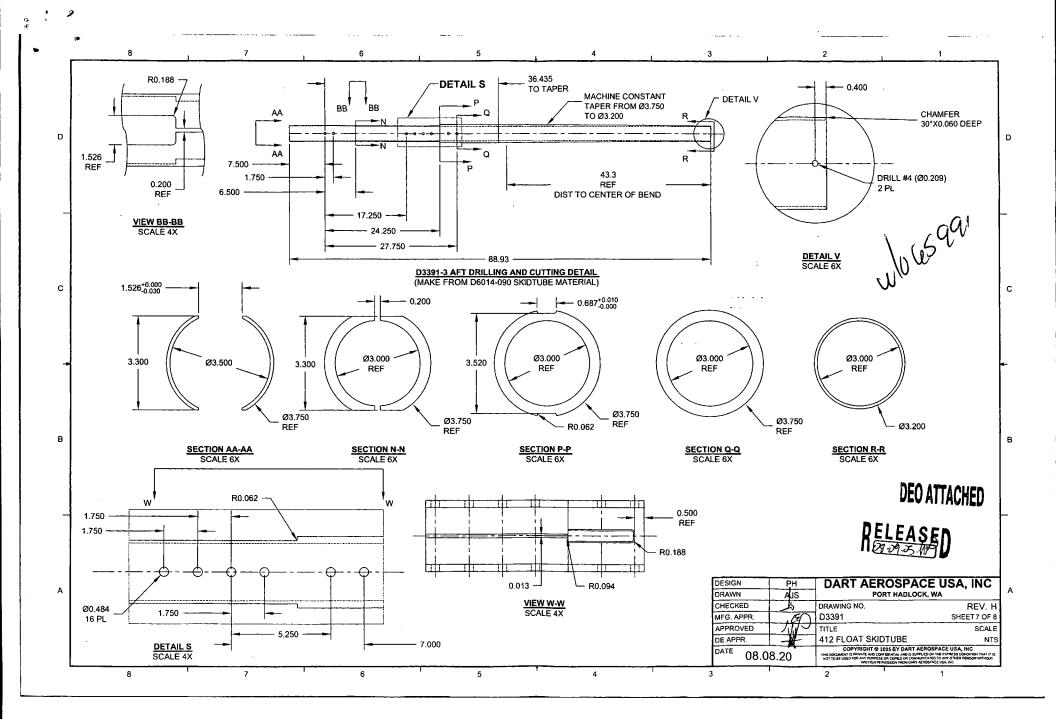


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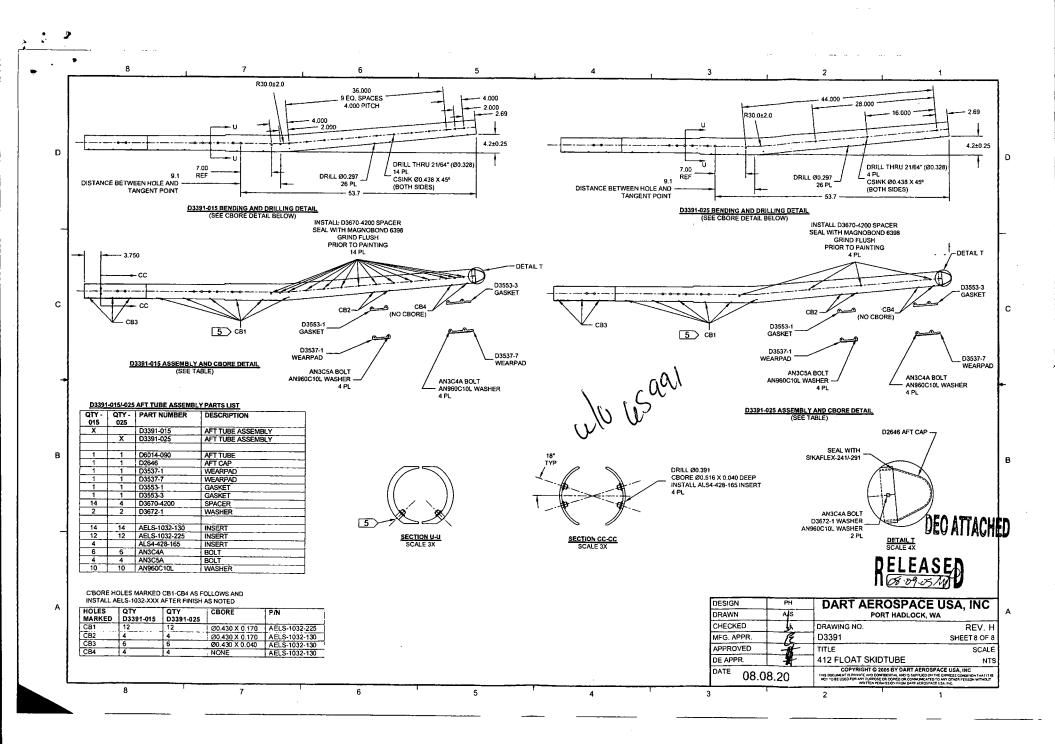
									
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DRAWING	NO.	TITLE		REV. H	DART AERO	SPACE USA,	INC D.E.O. NO.		SHEE	T NO.	SCALE
D3391_		412 FLOAT	SKIDTUBE		ENGINE	ERING ORDEI	R D3391-H-1		SHEET	1 OF,1	NTS
DRAWN	G.)	CHECKED	li	MFG. APPR.	W	APPROVED //	\mathcal{D}	DE APPR.	-#>	
DATE	09.09	.23	DATE	04.04.24	DATE	9/09/25	DATE 09/09	130	DATE	09/09/2	30

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH—AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 0 2

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NO. 244

AWS D17.1.2001 QUALIFICATION TEST RECORD

2	Coll to	
Name: <u> </u>	arklay Ellioff	
Job number:	65328	
Part number:_	13391-023	_
Description:	mid tube	_
Welding Proce	ess: Tig[\beta] Mig[]	
Base materiel:	alleemenan	
Current: AC		

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[] fail[] pass[] fail[]
UNACCEPTABLE	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier fat diens Welder Bostlay Wort	Date of Test Coupon // O/-18 Date of Test Coupon // D/-18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld